**Quiz # 1- Static Electricity**

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1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are transferred when two objects are rubbed against each other.
2. The Law of Charges states that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charges attract each other and that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charges repel each other.
3. A (n) \_\_\_\_\_\_\_\_\_\_\_\_\_ is a substance that does not let electrons move freely through it.

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1. a) Label and show the transfer of charges after the following two objects have been rubbed together:

Fur

Plastic Rod

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b) What is the charge on the plastic rod after it has been rubbed with the fur? \_\_\_\_\_\_\_

c) What is the charge of the fur? \_\_\_\_\_\_\_\_\_\_

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d) Explain what will happen if you bring the charged plastic rod close to (but not touching) an uncharged pith ball? **(1 mark)**

e) What will the charge on the pith ball be after the charged plastic rod touches the pith ball and then is removed? **(1 mark)**

1. Suppose your friend wants to do an experiment to show an example of “static electricity” however, he/she is confused about using either the metal rod or the glass rod with the piece of fur. Based on what you have learned, which type of rod would you suggest your friend to use? Why? **(2 marks)**

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